

In the Claims

[Claims 1-29 (Canceled)]

Claim ~~30~~² (Currently amended): A method for testing solubility of an active pharmaceutical ingredient in a sample, comprising:

- (a) preparing an array comprising 1000 or more samples, each sample comprising less than about 100 mg of the active pharmaceutical ingredient and at least three excipients, wherein each sample differs from any other sample with respect to at least one of:
- (i) the identity of an excipient, or
 - (ii) the ratio of the active pharmaceutical ingredient to the excipient;
- (b) testing the 1000 or more samples for solubility of the active pharmaceutical ingredient in each sample; and
- (c) comparing the solubilities of each sample to a baseline or a control for the solubility to generate a comparison result for each sample;
- wherein said active pharmaceutical ingredient is ~~griseofulvin~~^{griseofulvin} and wherein at least one sample has decreased solubility and at least one sample has a synergistic increased solubility.

[Claims 31-32 (Canceled)]

Claim ~~33~~² (Previously presented): The method of claim ~~30~~¹, further comprising generating of a data set from the samples.

Claim ~~34~~³ (Previously presented): The method of claim ~~30~~¹, wherein preparing the array and testing the samples is performed by an automated sample preparation and testing system.

Claim ~~35~~⁴ (Previously presented): The method of claim ~~33~~², further comprising analyzing the data set by a computer.

[Claim 36 (Canceled)]

Claim ~~37~~⁵ (Currently amended): The method of claim ~~30~~¹¹, wherein an amount of the active pharmaceutical ingredient~~active component~~ is less than about 1 milligram.

Claim ~~38~~⁶ (Currently amended): The method of claim ~~30~~¹¹, wherein an amount of the active pharmaceutical ingredient~~active component~~ is less than about 100 micrograms.

Claim ~~39~~⁷ (Currently amended): The method of claim ~~30~~¹¹, wherein an amount of the active pharmaceutical ingredient~~active component~~ is less than about 100 nanograms.

[Claims 40-42 (Canceled)]

Claim ~~43~~⁸ (Previously presented): The method of claim ~~30~~¹¹, wherein at least 1000 samples are tested per day.

[Claims 44-129 (Canceled)]